

RANDOLPH, TONYA

From: RANDOLPH, TONYA
Sent: Thursday, October 09, 2014 10:29 AM
Subject: West Vermont Street Groundwater Contamination
Attachments: Excerpt from AT DOCCwell locations.pdf; Hydrogeologic Settings.pdf; nwz 2 map with well results with industrylocations.jpg; Cossell Road No Well Zone 223.xls; AT - No Well Zones_090527.pdf

-----Original Message-----

From: Gebien.Charles@epamail.epa.gov [mailto:Gebien.Charles@epamail.epa.gov]
Sent: Friday, October 09, 2009 11:44 AM
To: McDaniel, Ken; ATKINSON, HARRY
Cc: Heller.Donald@epamail.epa.gov; Schlieger.Brian@epamail.epa.gov; Nachowicz.Linda@epamail.epa.gov; Holz.Theresa@epamail.epa.gov
Subject: Re: West Vermont Street Groundwater Contamination

Ken and Harry

I have assigned this site to OSC Brian Schlieger for assessment and evaluation for a removal action. OSC Theresa Holz will assist Brian in that she has experience with similar sites (alternate water supply). I have asked Brian to consult with Don Heller in regard to the Allison Transmission site as a possible source of VC.
 Thanks

Charles Gebien
 Chief Emergency Response Section 3
 United States Environmental Protection Agency
 77 West Jackson Blvd. (SE-5J)
 Chicago, IL 60604
 (312) 353-7645

"McDaniel, Ken"
 <KMCDANIE@idem.IN.gov>

10/08/2009 04:01 PM To Charles Gebien/R5/USEPA/US@EPA
 cc
 "ATKINSON, HARRY"
 <HATKINSO@idem.IN.gov>, "OERTEL, BRUCE" <BOERTEL@idem.IN.gov>

Subject
West Vermont Street Groundwater
Contamination

Charlie:

I am requesting US EPA assistance on behalf of Mr. Harry Atkinson, Chief, State Cleanup Section, to provide assistance and relief to residents located on West Vermont Street west of the intersection of Holt Road in Indianapolis, Indiana that have private wells impacted by vinyl chloride at levels above US EPA action levels. The neighborhood contains approximately 25 homes on private wells. The homes are located on two streets that do not have municipal water. It is hoped that an alternate source of water can be immediately provided and a long term solution to the contamination can be found.

Available data collected by the Marion County Health Department is included and attached.

If you need assistance or have questions about the site I can be contacted 24hrs at 317-691-6370.

Kenneth C. McDaniel
Senior Project Manager
Immediate Removal Program

From: Pam Thevenow [mailto:PTheveno@HHCorp.org]
Sent: Thursday, October 01, 2009 9:52 AM
To: McDaniel, Ken
Cc: ATKINSON, HARRY; Adam Rickert
Subject: RE: West Vermont Street Groundwater Results

Ken
thanks

we talked so some of your questions have been answered. i'm attaching add'l information regarding this site. we are continuing to sample concentrating on the 2 elevated homes, but will try to sample all the wells periodically. we've sent letters to owners of vacant homes trying to expand the sample results.

it looks like 20-25 homes possibly affected. we have sent results to don heller epa osc for the allison/gm site and to erin brittian with idem on the Genuine Parts site. All sample results have been given to owners/tenants with ATSDR information on those above the MCL.

I would like to get a filtration system on the 2 properties soon is that possible thru your group? Perhaps a meeting with your group, MCHD, VRP and EPA would be a good place to start figuring out how best to reduce exposure now and in the future.

Ken here's a summary of your questions:

1. No alternate water supply or public water lines available or filtration available
2. These residents have limited income I doubt they can afford to do anything
3. 20-25 homes impacted, some are vacant right now
4. IWC and Speedway are the water utilities
5. I'm not sure about the RP situation, plus this will take a while to figure out--can we get a filter on the 2 wells affected and then work on the RP situation?
6. I'm thinking the municipal well referred to are Speedway--they do not have to report this information, but you could check with Pat Carroll at Idem to double check....i will ask also, but IDEM is a better agency to request this information since IDEM regulates municipal water supplies.
7. MCHD is trying to make the water safe to use, but need the state and federal resources to do this....

Pam Thevenow
Water Quality & Hazardous Materials Management
3838 North Rural St
Indianapolis, IN 46205
phone: 317 221-2266
fax: 317 221-2288
ptheveno@hhcorp.org

-----"McDaniel, Ken" <KMCDANIE@idem.IN.gov> wrote: -----
To: <ptheveno@hhcorp.org>
From: "McDaniel, Ken" <KMCDANIE@idem.IN.gov>
Date: 09/25/2009 02:52PM
cc: "ATKINSON, HARRY" <HATKINSO@idem.IN.gov>
Subject: RE: West Vermont Street Groundwater Results
Pam:

The level of Vinyl Chloride reported in the samples concerns me. It is well over the removal action number of 1ppb. Do these homes currently have any alternative water or filtration equipment? If they do not have alternative water or a filtration equipment to remove the vinyl chloride they should have some remedy.

How many homes in the vicinity have the potential to be impacted? Which streets or blocks do not have municipal water and are there any homes in the area that could be on wells even if municipal water is available at the curb?

Is there a responsible party that can remedy the water at the two known affected homes? I have observed from aerial photos that Allison Transmission is up gradient. From the aerial photos it also appears that there may be some municipal wells in the area. If so, have those wells reported detections of chlorinated solvents?

What action is the city planning to take? Please call me at

317-691-6370 or Harry Atkinson at 317-234-0347 to discuss this site.

Ken McDaniel

From: ATKINSON, HARRY
Sent: Friday, September 25, 2009 12:49 PM
To: McDaniel, Ken
Subject: FW: West Vermont Street Groundwater Results
Importance: High

FYI -

Harry E. Atkinson, Chief

State Cleanup Section

Remediation Service Branch

317-234-0347

From: Pam Thevenow [mailto:PTheveno@HHCorp.org]
Sent: Thursday, September 24, 2009 1:40 PM
To: ATKINSON, HARRY
Subject: Fw: West Vermont Street Groundwater Results

Harry

We came across a couple of streets in in southwest indy that have private wells but are in one of MCHDs No Well Zones. I was surprised to hear this news. Two wells are showing consistent hits of Vinyl Chloride, one well exceeds the MCL frequently. I've attached lab information for you plus a spreadsheet that gives you history of sampling over this last couple of months. Genuine Part VRP and Allison/GM are in the vicinity.

While I'm not sure as to the clean up statue or schedule is for GM or GP --I was wondering if IDEM might be able to provide a treatment system for these two properties due to the health implications.....can you look this over--give me a buzz?

Pam Thevenow
Water Quality & Hazardous Materials Management
3838 North Rural St
Indianapolis, IN 46205
phone: 317 221-2266

fax: 317 221-2288
ptheveno@hhcorp.org

-----Forwarded by Pam Thevenow/HHCorp on 09/24/2009 01:19PM -----

To: ebrittai@idem.in.gov, heller.donald@epa.gov
From: Adam Rickert/HHCorp
Date: 09/24/2009 12:58PM
cc: Pam Thevenow/HHCorp@HHCorp, Ryan Cooper/HHCorp@HHCorp
Subject: West Vermont Street Groundwater Results Erin and Don,

Attached should be the most recent groundwater sample results for the two properties on West Vermont.

The following shows the sample date for each property which should correspond to the attachment:

4018 W Vermont	4042 W Vermont
8/20/09	8/27/09
8/27/09	9/3/09
9/3/09	9/10/09
9/10/09	9/17/09
9/17/09	

The 4018 W Vermont Street well consistently has results above the MCL for Vinyl chloride.

Adam Rickert, CHMM, REHS
Department of Water Quality and Hazardous Materials Mgt Marion County Health Department
3838 N Rural 5th floor
Indianapolis IN 46205

(317) 221-2298
Fax (317) 221-2288

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**RCRA Corrective
Action
Description of Current
Conditions**

General Motors Corporation
Powertrain - Allison
Transmission

USEPA ID IND006413348
and IND000806828

3 Physical Setting

3.1 Land Use

Plant 2 is bounded by industrial property to the north, including Praxair Surface Technologies (a subsidiary of Praxair, which spun-off from Union Carbide in 1992) north of which is the Indianapolis Motor Speedway; a former railroad right-of-way and Electric Steel Castings Company and 10th Street to the south (beyond which is Allison Plant 3); Main Street to the west (beyond which are commercial/retail facilities and residences); and a railroad right-of-way property and lime slurry piles, Polco Street and Dry Run Creek to the east (Drawing 1). Residential properties are located within one-quarter mile west of Plant 2.

Plant 12/14 is bounded to the east by Holt Road, beyond which are a commercial facility, a city park and a residential area. A residential area is to the south of Plant 12/14. To the west of Plant 12/14 is Allison Plant 3 and to the north of Plant 12/14 is a Speedway Super America gas station and Crystal Clean (an oil and solvent reclaim and industrial degreasing service provider), beyond which is the Marathon Ashland Petroleum Speedway terminal.

A residential area and Allison Plant 2 are present north of Plant 3. Big Eagle Creek borders the Plant 3 southern property boundary, south of which is a public golf course. Directly to the east of Plant 3 is Plant 12/14. To the west of Plant 3 are residential and commercial properties.

A majority of the facility is either occupied with buildings or is paved. Two baseball diamonds are located to the west of Plant 3 and appear to be actively used. Drawing 6 shows an overview of the land cover at the Site.

3.2 Water Use and Water Supply Wells

A review of the available water well records maintained by the Indiana Department of Natural Resources (IDNR) was conducted to identify any wells in the area surrounding the Site. All available well construction logs were examined. The search included both low capacity wells (<70 gallons per minute [gpm]) within a 1/4-mile radius and high capacity wells (>70 gpm) within a 1-mile radius.

Records for 36 low capacity wells were identified within a 1/4-mile radius of the Site. The depth of the wells ranged from 36 ft to 270 ft below ground surface (bgs). Seven

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of the wells were completed in bedrock that was encountered at depths ranging from 80 to 127 ft bgs, and the other 29 wells were completed in unconsolidated sand and gravel. Groundwater flow in the unconsolidated deposits has been shown to be to the south toward Big Eagle Creek. Twenty-eight of the wells in unconsolidated sand and gravel are downgradient of the Site. Drawing 7 shows the locations of off-site water supply wells. A copy of off-site water well records is included in Appendix C.

Twenty-three high capacity wells are located within one-mile of the Site. Fifteen of these high capacity wells are/were located at the facility. These wells range in depth from 57 ft to 121 ft bgs. Bedrock was not encountered in any of the wells. Two of off-Site wells are located downgradient (south) of the Site. The locations of the water supply wells at the Site are shown on Drawing 3 and the off-Site wells are shown on Drawing 7. The available well logs are included in Appendix D.

Historically there were fifteen water supply wells present at Plant 3 (PW-1 through PW-12) and three water supply wells at Plant 2 (PW-21, PW-22 and PW-23). Currently there are seven wells that are used. The two water supply wells at Plant 2, PW-22 and PW-23 were abandoned in 2003. In 2004, groundwater production from each of the operating wells was as follows:

- √ PW-1B: 362,000 gallons.
- √ PW-2: 68,000 gallons.
- √ PW-5A: 10,839,000 gallons.
- √ PW-7A: 13,549,000 gallons.
- √ PW-10: 4,065,000 gallons.
- √ PW-11: 29,063,000 gallons.
- √ PW-12: 10,162,000 gallons

Groundwater from the water supply wells is treated through a sand filter prior to being used at the facility for production purposes.

An additional water source for the Plants is provided by stormwater collection basins. During rain events, stormwater is diverted to the collection basins. Some of this collected stormwater is treated through sand filters at waste treatment (AOI 19) and is

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supplied to the facility for production purposes. The remaining stormwater is discharged to Big Eagle Creek, Little Eagle Creek or Dry Run Creek through the outfalls illustrated in Drawing 5. Table 6 provides a summary of the water withdrawal from the water supply wells, as well as from the stormwater collection system.

Plant 2, Plant 3 and Plant 12/14 use city-supplied water for non-production purposes (drinking water, showers, etc.). Plant 2, Plant 3 and Plant 12/14 were connected to the Town of Speedway water utility when each plant was constructed.

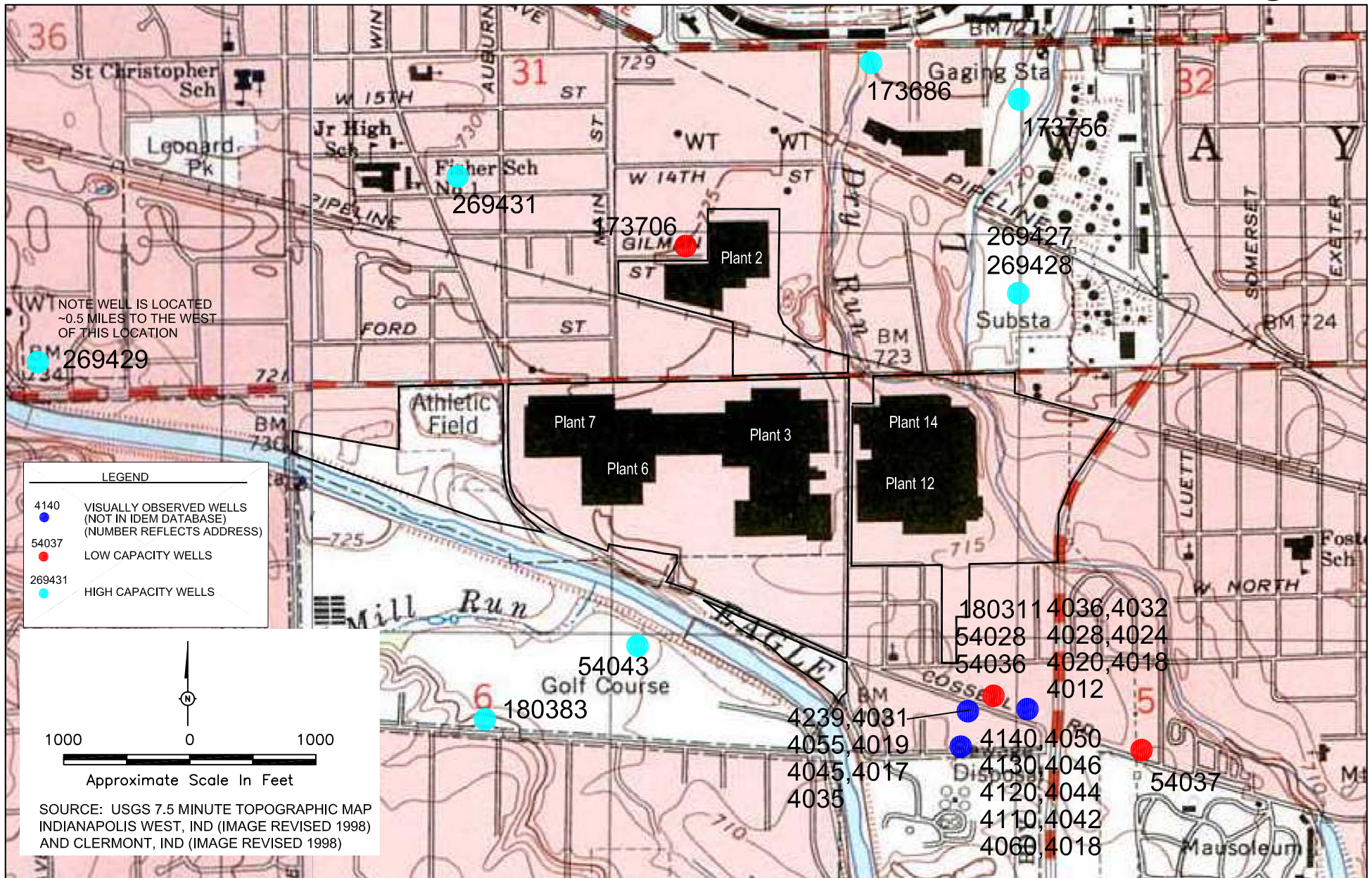
Based on well field protection district maps published by the City of Indianapolis Department of Metropolitan Development, the Site is not located within a well field protection district. According to the maps, the nearest well field protection area is located approximately 2 miles to the northeast (side gradient) of the Site.


Installation of a well in Marion County requires a licensed water well driller to obtain a well permit, which is signed by the Marion County Health Officer. The County Health Officer does not sign well permits for potable wells proposed for installation in a “No-Well Zone”, since the groundwater in these areas is not considered suitable for use by humans for drinking, food preparation, washing or other direct human contact (Sec. 18-102 of the Marion County Health Code). The No-Well Zone areas located in Indianapolis are depicted on Drawing 8. As shown on this drawing, a portion of the Site (Plant 12/14) is within the No-Well Zone Area 2, which is shown in greater detail in Drawing 9.

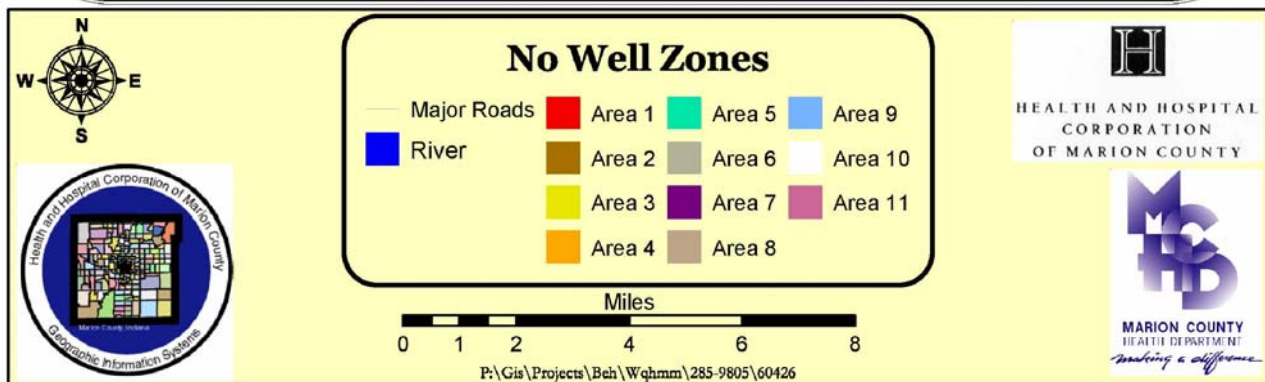
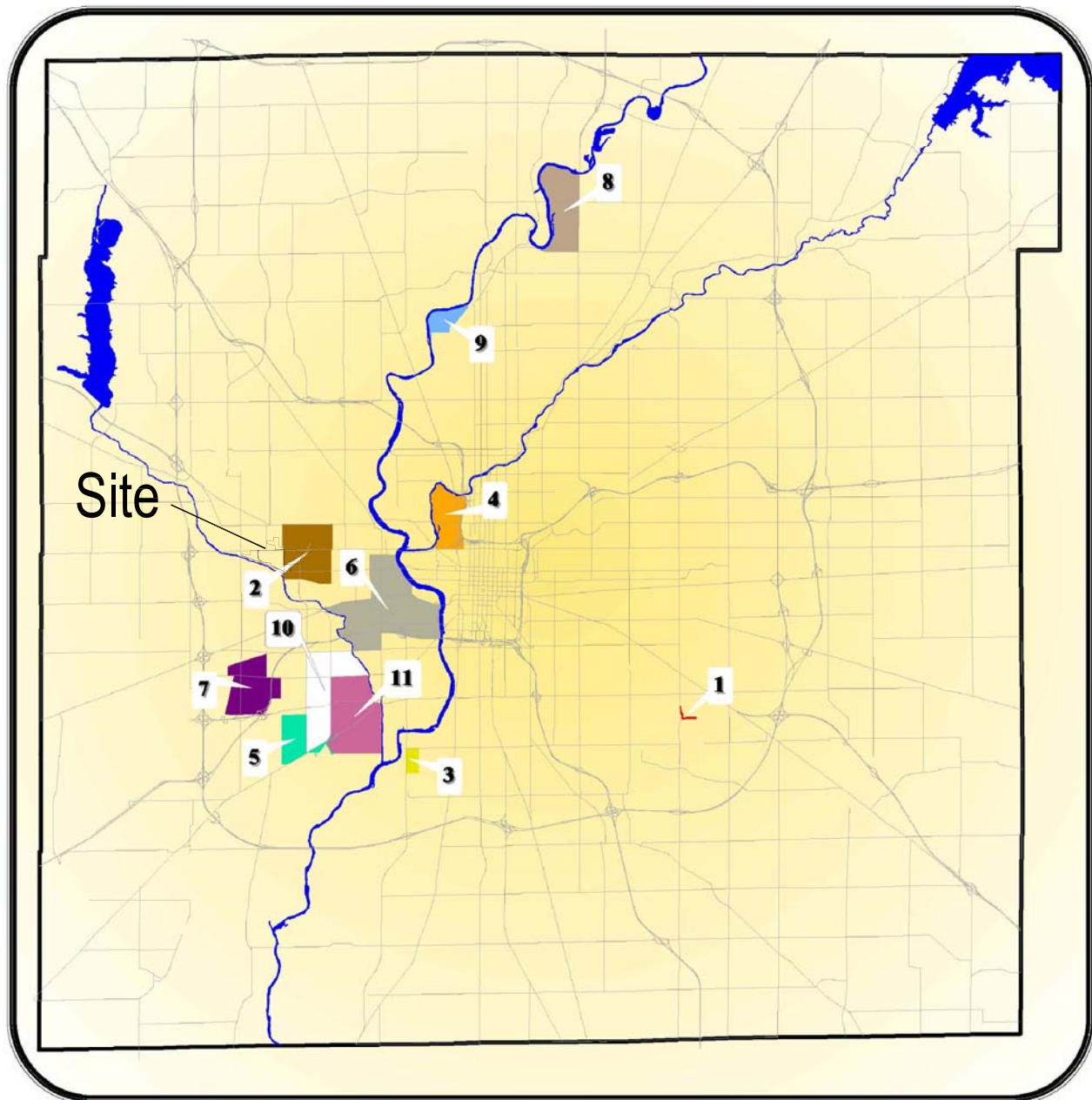
In addition to reviewing available water well records, the Town of Speedway and City of Indianapolis Utilities were contacted to determine the source of residential supply water to the south of Plant 3 and Plant 12/14. It was determined that 25 parcels are not connected to the Town of Speedway or City of Indianapolis water and sewer utilities. A Drawing showing the locations of these parcels is presented in Appendix B as Drawing B-1b. Sixty-three of the parcels that are connected to the water utility are not being billed for sewer utility service. Residential water wells were observed at twenty-four parcels, one of which is connected to the water utility, but isn't being billed for sewer utility service (presented on Drawing B-1b).


3.3 Geology and Hydrogeology

The approximate Site elevation is 720 feet above mean sea level; the Site land surface is relatively flat and slopes gently to the southwest. The Site is located in the White River watershed, bounded by one tributary to the White River and transected by a




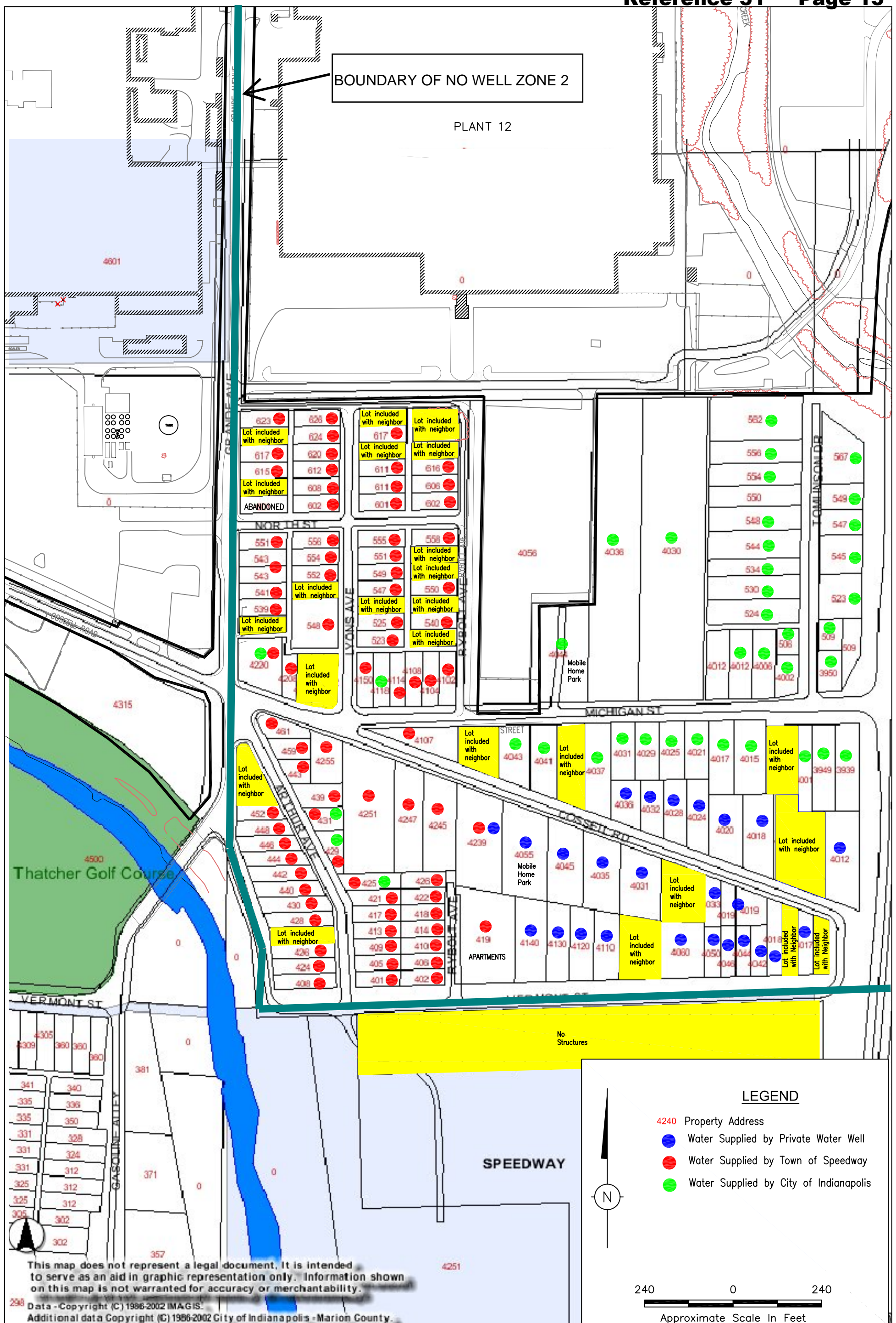
<p>Area Manager M. Flavin</p> <p>Project Director R. Walker</p> <p>Task Manager M. Fisherkeller</p> <p>Technical Review S. Fisher</p>	 <p>251 East Ohio Street Suite 800 Indianapolis, Indiana 46204 Tel: 317.231.6500 Fax: 317.231.6514 www.arcadis-us.com</p>	<p>GENERAL MOTORS - ALLISON TRANSMISSION RCRA CORRECTIVE ACTION DESCRIPTION OF CURRENT CONDITIONS</p> <p>OFF-SITE WATER SUPPLY WELLS</p> <p>SPEEDWAY, INDIANA</p>	<p>Project Number IN000473.0016</p> <p>Drawing Date 10/2004</p> <p>Drawing 7</p>
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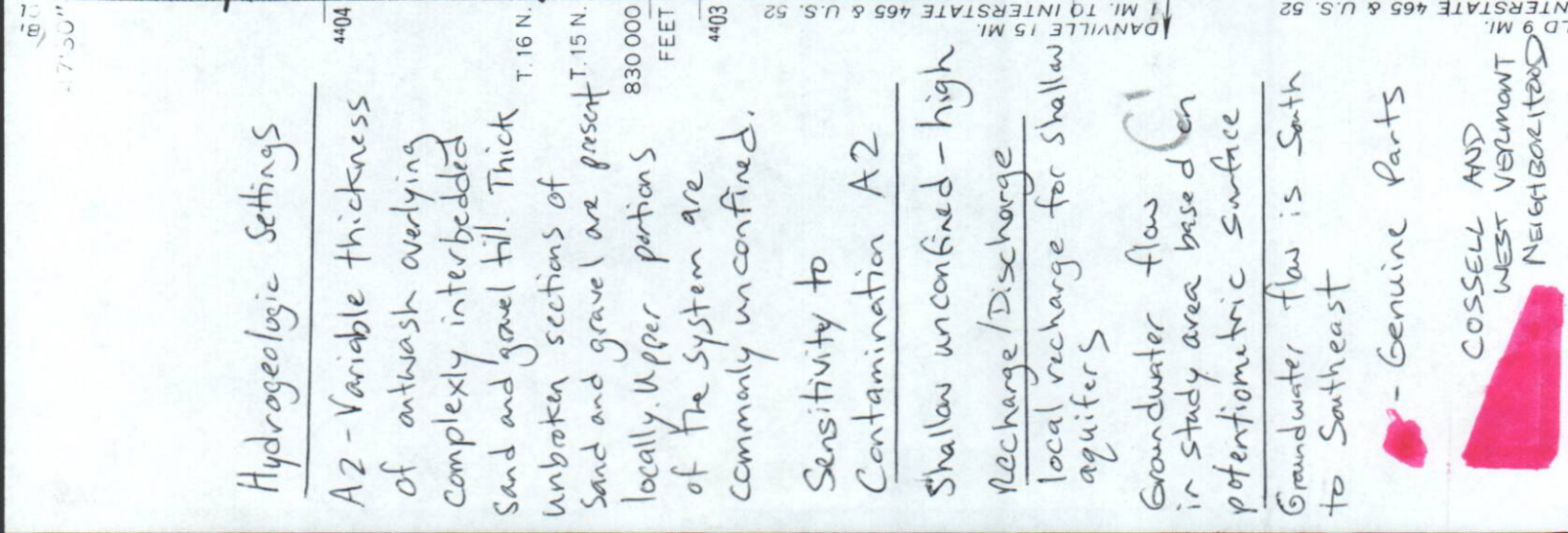


<p>Area Manager M. FLAVIN</p> <p>Project Director R. WALKER</p> <p>Task Manager M. FISHERKELLER</p> <p>Technical Review S. FISHER</p>	 <p>251 East Ohio Street Suite 800 Indianapolis, Indiana 46204 Tel: 317.231.6500 Fax: 317.231.6514 www.arcadis-us.com</p>	<p>GENERAL MOTORS - ALLISON TRANSMISSION RCRA CORRECTIVE ACTION DESCRIPTION OF CURRENT CONDITIONS</p> <p>NO WELL ZONES</p> <p>SPEEDWAY, INDIANA</p>	<p>Project Number IN000473.0016</p> <p>Drawing Date 10/2004</p> <p>Drawing 8</p>
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	Project Director			Drawing Date	10/2004
	Task Manager			Drawing	9
	Technical Review				



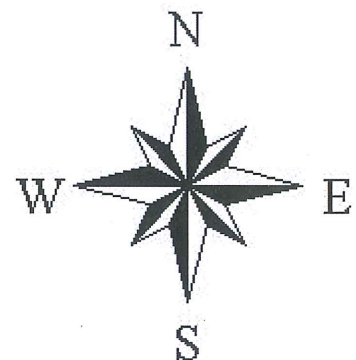


No Well Zone 2 Ground Water Survey



0.2 0 0.2 0.4 Miles

- Sampled Properties as of August 1, 2009
- Parcels
- No Well Zone 2
- Major Streets
- Centerlines
- Major Streams
- Water Lines



Address	Sample Date	Comments	1st Recheck	Comments	2nd Recheck	Comments	3rd Recheck	Comments
4255 Cossell Rd.	Wilcox	Management Corp.						
4251 Cossell Rd.								
4247 Cossell Rd.	Michelle M.	KLUESNER	Vacant					
4245 Cossell Rd.	Marty	Bowling						
4239 Cossell Rd.	Cheryl	Bosley	Vacant					
4055 Cossell Rd.	Kenneth	Delatte						
4045 Cossell Rd.	6 23 09	E.coli	7/20/2009	Bact-OK				
4036 Cossell Rd.	6 17 09	E. coli/coliform	7/20/2009	Coliform				
4035 Cossell Rd.	James	Ferguson						
4032 Cossell Rd.	6 23 09	Bact/Chem OK						
4031 Cossell Rd.	6 29 09	coliform	7/20/2009	Coliform				
4028 Cossell Rd.	6 17 09	E. coli/coliform						
4027 Cossell Rd.	Dawson	Back						
4024 Cossell Rd.	6 17 09	coliform						
4020 Cossell Rd.	6 17 09	E. coli/coliform	6 29 09	coliform	7/8/2009	coliform + E. coli	7 27 09	E.coli 9.9/Colif >200 mpn
4019 Cossell Rd.	7 27 09	Coliform						
4018 Cossell Rd.	Issac	Pollard						
4017 Cossell Rd.	7 27 09	Coliform						
4012 Cossell Rd.	William	Hagen						
4140 Vermont Ave.	7 22 09	Chem < MCL						
4130 Vermont Ave.	6 25 09	Chem < MCL						
4120 Vermont Ave.	Ronald	Howard						
4110 Vermont Ave.	Nora	Willman						
4060 Vermont Ave.	6 11 09	coliform	7/6/2009	OK				
4050 Vermont Ave.	Belmont	Trust II	Vacant					
4046 Vermont Ave.	7/8/2009	Chemical below MCL						
4044 Vermont Ave.	7 22 09	4 sale, < MCL	7 29 09	E. Coli/Coliform				
4042 Vermont Ave.	6 11 09	colif/vinyl chl 2.1 ug/L	6 25 09	vinyl chl 1.5 ug/L	7 09 09	vinyl chl 1.5 ug/L	7 20 09	vinyl chl 1.7 ug/L
4018 Vermont Ave.	6/11/2009	vinyl chl 4.5 ug/L	7 22 09	vinyl chl 5.1 ug/L	7 27 09	vinyl chl 4.3 ug/L	8 05 09	4.6 ug/L

Pink Lines are Finished.

	4th Recheck	Comments	5th Recheck	Comments	6th Recheck	Comments	7th Recheck	Comments
Vinyl Chloride								
4042 Vermont	7 27 09	0.77 ug/L	8 12 09	1.2ug/L	8 27 09	1.8 ug/L	9 3 09	.73 ug/L
4018 Vermont	8 12 09	5.6 ug/L	8 20 09	5.2 ug/L	8 27 09	1.3 ug/L	9 3 09	4.5 ug/L

	8th Recheck	Comments	9th Recheck	Comments	10th Recheck	Comments	11th Recheck	Comments
Vinyl Chloride								
4042 Vermont	9 10 09	.85 ug/L	9 17 09	.59 ug/L				
4018 Vermont	9 10 09	3.6 ug/L	9 17 09	3.6 ug/L				

Address	Well?	Well Depth in Feet	Well Log?
4255 Cossell Rd.			
4251 Cossell Rd.			
4247 Cossell Rd.			
4245 Cossell Rd.			
4239 Cossell Rd.	Y	52	Y
4055 Cossell Rd.			
4045 Cossell Rd.	Y		
4036 Cossell Rd.	Y	40	Y
4035 Cossell Rd.			
4032 Cossell Rd.	Y		
4031 Cossell Rd.	Y		
4028 Cossell Rd.	Y	40	Y
4027 Cossell Rd.			
4024 Cossell Rd.	Y	59	Y
4020 Cossell Rd.	Y	51	Y
4019 Cossell Rd.	Y	41	Y
4018 Cossell Rd.			
4017 Cossell Rd.	Y	54	Y
4012 Cossell Rd.	Y	62	Y
4140 Vermont Ave.	Y	36	Y
4130 Vermont Ave.	Y	37	Y
4120 Vermont Ave.	Y	50	Y
4110 Vermont Ave.	Y	40	Y
4060 Vermont Ave.	Y	57	Y
4050 Vermont Ave.	Y	70	Y
4046 Vermont Ave.			
4044 Vermont Ave.	Y	75	Y
4042 Vermont Ave.	Y	35	Y
4018 Vermont Ave.	Y	75	Y

Geometric Mean
Average Well Depth

49.82640563
49.9375

4042 Vermont St.

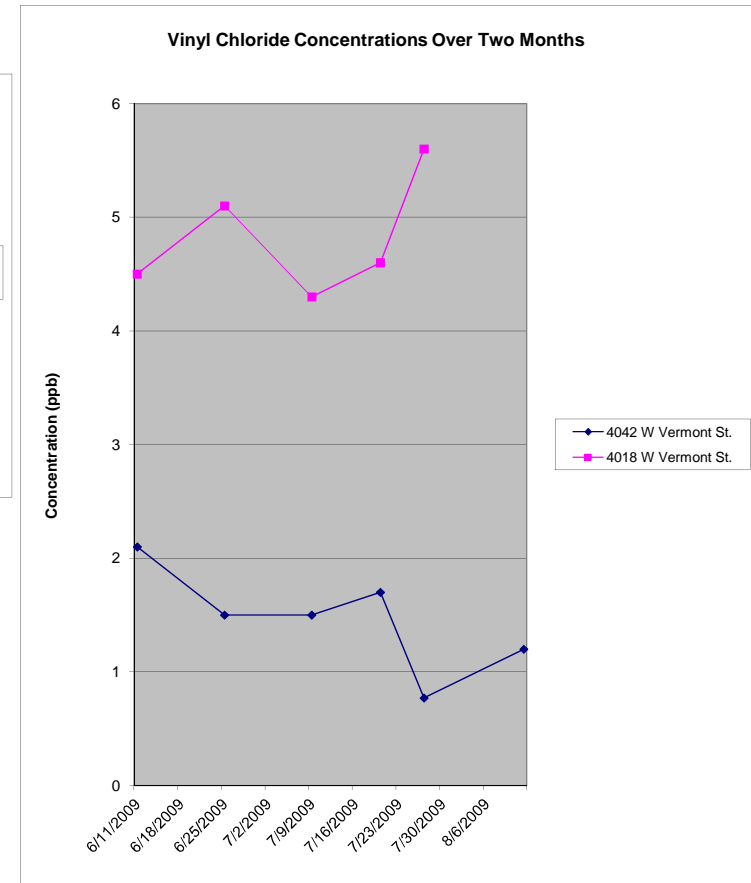
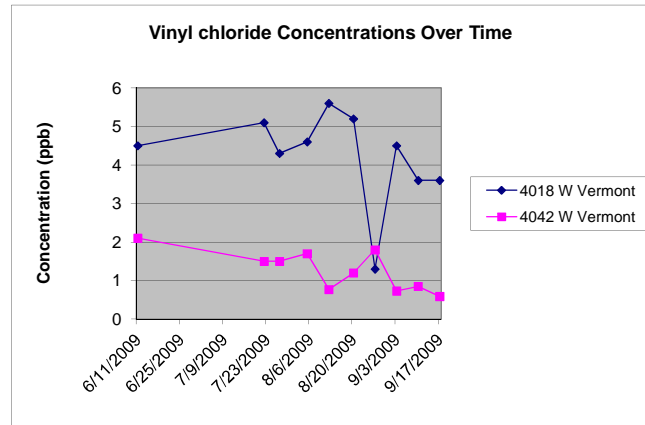
Sampling Date	ug/L (ppb)
6/11/2009	2.1
6/25/2009	1.5
7/9/2009	1.5
7/20/2009	1.7
7/27/2009	0.77
8/12/2009	1.2
8/27/2009	1.8
9/3/2009	0.73
9/10/2009	0.85
9/17/2009	0.59

Mean	Standard Deviation
1.27	0.521

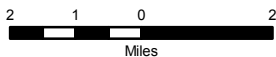
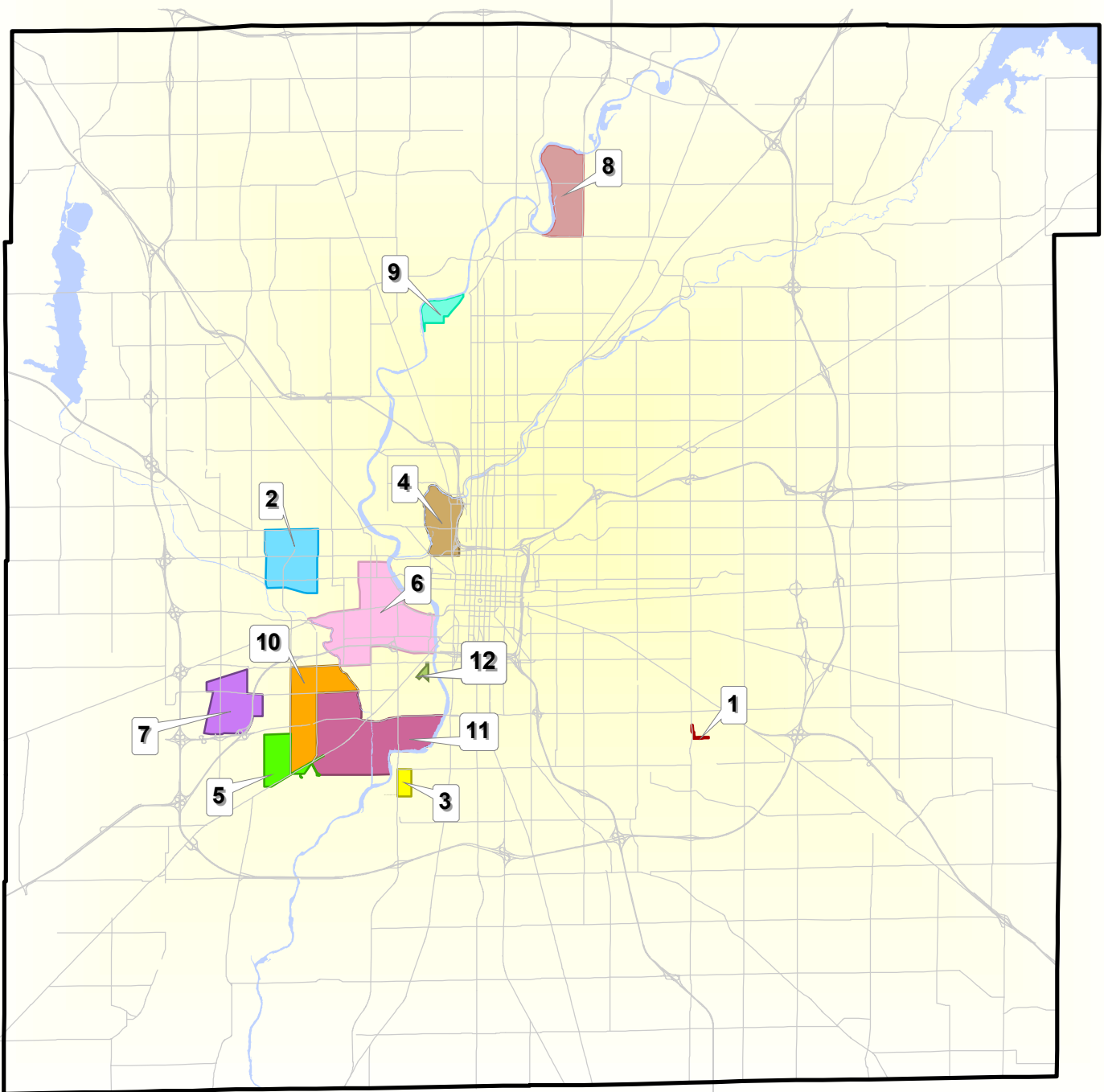
4018 W Vermont St.

Sampling Date	ug/L (ppb)
6/11/2009	4.5
7/22/2009	5.1
7/27/2009	4.3
8/5/2009	4.6
8/12/2009	5.6
8/20/2009	5.2
8/27/2009	1.3
9/3/2009	4.5
9/10/2009	3.6
9/17/2009	3.6

Mean	Standard Deviation
4.23	1.213



0
1
2
3
4
5
6

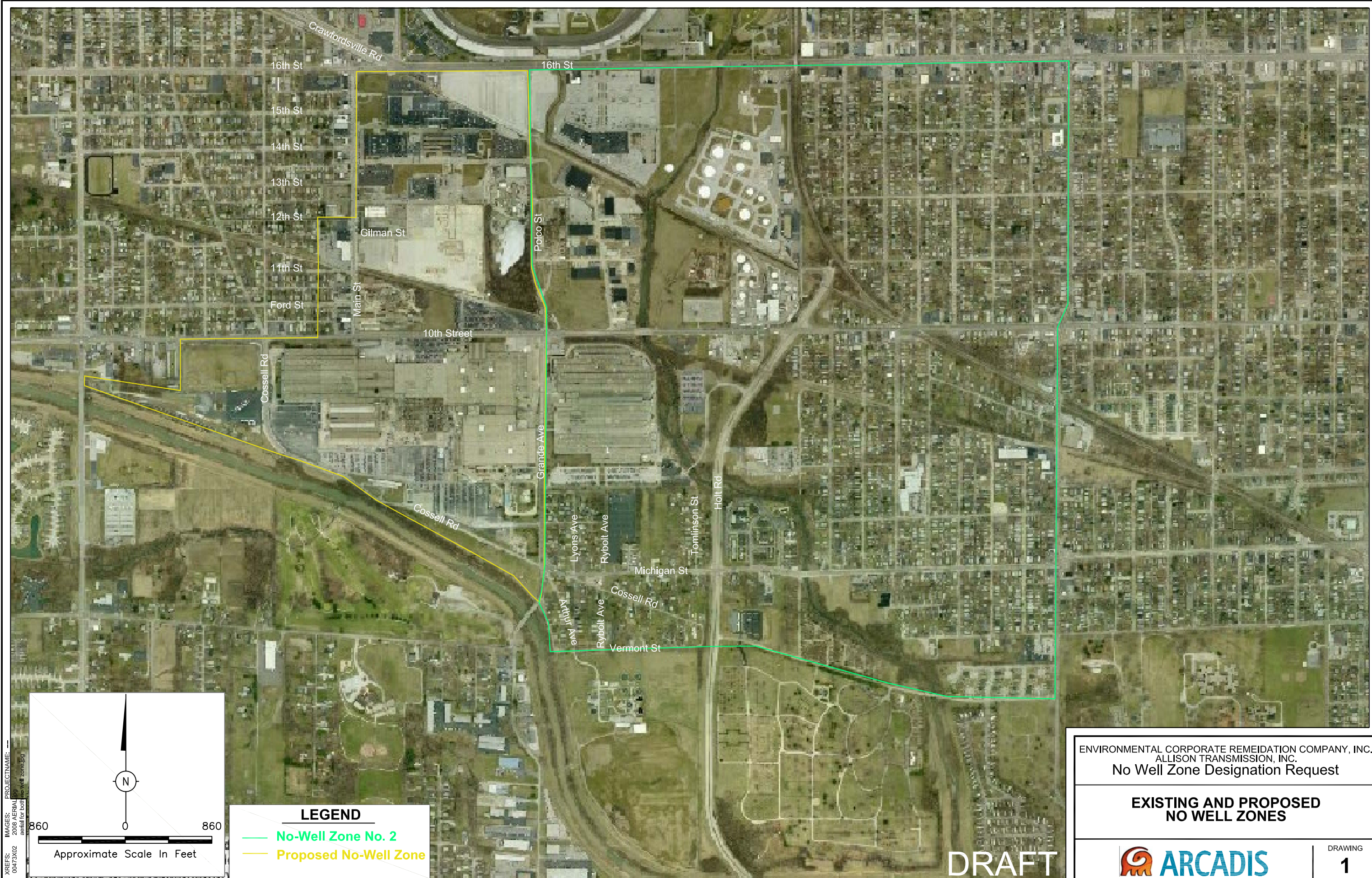


No Well Zones

 Area 1	 Area 7	 Major Roads
 Area 2	 Area 8	 River
 Area 3	 Area 9	
 Area 4	 Area 10	
 Area 5	 Area 11	
 Area 6	 Area 12	

CITY: (Read) DIV/GRP: (Read) DB: (Read) PM: (Read) TM: (Opt) LY: (Opt) ON: "OFF" REF: G:\PROJECTS\ALLISTON\413017-RTING-Well Zone\No well zone\Drawing - NWZ Areas for P1\Theverow.dwg LAYOUT: BOTH ZONES PAGES: 527/2008 11:10 AM ACADVER: 17.05 (LMS TECH) PAGES: 527/2008 11:10 AM BY: FISHER, SARAH

PROJECTNAME: 00473X02 XREFS: 00473X02 IMAGES: 2008 AERIAL aerial for both no well zone.jpg



ENVIRONMENTAL CORPORATE REMEDIATION COMPANY, INC.
ALLISON TRANSMISSION, INC.
No Well Zone Designation Request

EXISTING AND PROPOSED
NO WELL ZONES



DRAWING
1